

# Thermoelectric Cooler RC12-6

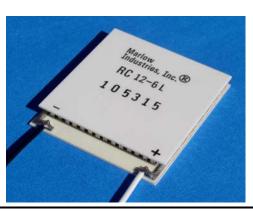
# RoHS 2002/95/EC Compliant

## Performance Values

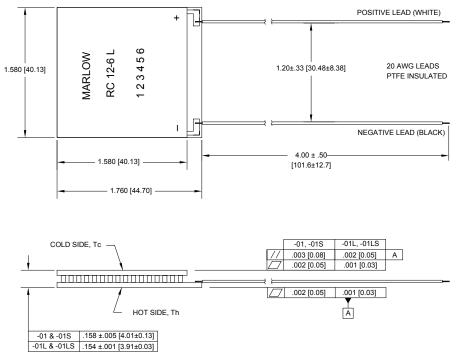
marlow

**industries** Subsidiary of II-VI Incorporated

Hot Side Temperature (°C)	27°C	50°C
$\Delta$ Tmax (°C-dry N <sub>2</sub> ):	66	74
Qmax (watts):	54	60
Imax (amps):	5.6	5.6
Vmax (vdc):	14.7	16.4
AC Resistance (ohms):	2.2	



## **Mechanical Characteristics**



Ceramic Material: Alumina (AC)

#### \_\_\_\_\_

## Ordering Options

Model Number	Description
RC12-6-01	Base Model w/ leads
RC12-6-01L	Lapped Model
RC12-6-01S	Sealed Model
RC12-6-01LS	Lapped and Sealed Model

#### Features

#### • RoHS 2002/95/EC compliant

Dimensions in [ ] are millimeters

- Solid-state reliability.
- Built with high temperature solder with the ability to withstand higher assembly processing temperatures for short periods of time (<160°C).</li>
- Superior nickel diffusion barriers on elements
- High strength for rugged environment.
- Porched configuration for enhanced leadwire strength
- RTV sealing available (Optional)
- Lapped option available for multiple module applications.

214-340-4900 (tel) • 214-341-5212 (fax) • www.marlow.com

### Doc # 102-0278



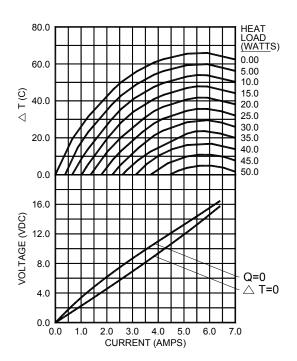


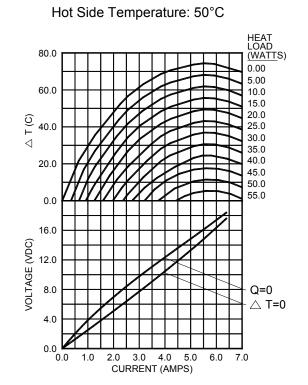
a global leader in thermoelectric solutions

# Performance Curves

Environment: One atmosphere dry nitrogen

Hot Side Temperature: 27°C





For performance information in a vacuum or with hot side temperatures other than 27°C or 50°C, consult one of our Applications Engineers.

### Installation

Recommended mounting methods: Bonding with thermal epoxy or soldering with metallized ceramics. For additional information, please refer to our TEC Installation Guide.

### **Operation Cautions**

For maximum reliability, storage and operation below 85°C in a non-condensing environment is recommended. To minimize thermal stress, use linear/proportional temperature control or a similar method rather than an ON/OFF method.

### Addresses

Marlow Industries, Inc. 10451 Vista Park Road Dallas Texas 75238-1645 214-340-4900 (tel) 214-341-5212 (fax) www.marlow.com Marlow Industries Europe Aberdeen House, South Road Haywards Heath West Sussex RH164NG UK +44 (0)1444-443404 (tel) +44 (0)1444-443334(fax)

#### Marlow Industries Japan

1-1-8-401 Uehara, Shibuya-ku Tokyo, Japan 151-0064 +81 (3) 5454-5280 (tel) +81 (3) 5454-5281(fax)

214-340-4900 (tel) • 214-341-5212 (fax) • www.marlow.com

Doc # 102-0278